	Application No.	Applicant(s)
Notice of Allowability	09/644,937	
	Examiner	NICHOLLS, ANTHONY Art Unit
	John C Drugge	4024
	John S. Brusca	1631
The MAILING DATE of this communication app All claims being allowable, PROSECUTION ON THE MERITS IS herewith (or previously mailed), a Notice of Allowance (PTOL-85 NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT R of the Office or upon petition by the applicant. See 37 CFR 1.31:	S (OR REMAINS) CLOSED) or other appropriate comm RIGHTS. This application is	in this application. If not included nunication will be mailed in due course. THIS
1. A This communication is responsive to the interview of 12 O	october 2005.	
2. X The allowed claim(s) is/are 22,27-29 and 140-148.		
3. Acknowledgment is made of a claim for foreign priority u a) All b) Some* c) None of the:) or (f).
1. Certified copies of the priority documents have been received.		
2. Certified copies of the priority documents have been received in Application No		
3. Copies of the certified copies of the priority documents have been received in this national stage application from the		
International Bureau (PCT Rule 17.2(a)).		
* Certified copies not received:	•	
Applicant has THREE MONTHS FROM THE "MAILING DATE" noted below. Failure to timely comply will result in ABANDONN THIS THREE-MONTH PERIOD IS NOT EXTENDABLE.	of this communication to fild MENT of this application.	e a reply complying with the requirements
4. A SUBSTITUTE OATH OR DECLARATION must be subm INFORMAL PATENT APPLICATION (PTO-152) which giv	nitted. Note the attached EX res reason(s) why the oath o	AMINER'S AMENDMENT or NOTICE OF or declaration is deficient.
5. CORRECTED DRAWINGS (as "replacement sheets") must be submitted.		
(a) ☐ including changes required by the Notice of Draftsperson's Patent Drawing Review (PTO-948) attached		
1) hereto or 2) to Paper No./Mail Date	<u>-</u> ·	
(b) ☐ including changes required by the attached Examiner Paper No./Mail Date	's Amendment / Comment o	or in the Office action of
Identifying indicia such as the application number (see 37 CFR 1 each sheet. Replacement sheet(s) should be labeled as such in	1.84(c)) should be written on the header according to 37 C	the drawings in the front (not the back) of FR 1.121(d).
6. DEPOSIT OF and/or INFORMATION about the deposit attached Examiner's comment regarding REQUIREMENT	OSIT OF BIOLOGICAL MAT FOR THE DEPOSIT OF B	ERIAL must be submitted. Note the IOLOGICAL MATERIAL.
		•
A44	•	
Attachment(s) 1. ☐ Notice of References Cited (PTO-892)	5 ☐ Notice of t	nformal Patent Application (PTO-152)
2. Notice of Draftperson's Patent Drawing Review (PTO-948)		Summary (PTO-413),
	Paper No	./Mail Date <u>10/12/2005</u> .
 Information Disclosure Statements (PTO-1449 or PTO/SB/I Paper No./Mail Date 10/11/2005 	08), /. ⊠ Examiner's	s Amendment/Comment
4. Examiner's Comment Regarding Requirement for Deposit of Biological Material	8. Examiner's	s Statement of Reasons for Allowance
-	9. 🔲 Other	<u> </u>

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DETAILED ACTION

1. This supplemental Examiner's amendment is being made to add new claims 145-148 and to correct the relationship to International Application No. PCT/US99/04343 in the claim for domestic priority. The new claims have the same text as previous withdrawn species claims 23-26, which were improperly cancelled in the Examiner's amendment mailed 14 September 2005.

EXAMINER'S AMENDMENT

2. An examiner's amendment to the record appears below. Should the changes and/or additions be unacceptable to applicant, an amendment may be filed as provided by 37 CFR 1.312. To ensure consideration of such an amendment, it MUST be submitted no later than the payment of the issue fee.

Authorization for this examiner's amendment was given in a telephone interview with Richard Bone on 12 October 2005 and 21 October 2005.

The application has been amended as follows:

In the first sentence on page 1 as amended in the amendment filed 11 March 2003, after "This application is a" the phrase "a U.S. national phase application" has been deleted and --a continuation-- has been substituted therefor.

New claims 145-148 are added as follows:

145. (New) The method of claim 22 wherein said minimal metric distance is calculated as a maximal overlap of a first molecular field of said molecule i and a second molecular field of said molecule j, wherein said first molecular field and said second molecular field are both chosen to be a field selected from the group consisting of steric and electrostatic.

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146. (New) The method of claim 22 wherein said minimal metric distance is calculated as a maximal overlap of an ellipsoidal gaussian representation of a molecular field of said molecule i and an ellipsoidal gaussian representation of a molecular field of said molecule j.

147. (New) The method of claim 146 wherein each of said ellipsoidal Gaussian representations is constructed by:

choosing a number of ellipsoidal gaussian functions to represent said field, wherein each ellipsoidal gaussian function comprises a prefactor, three width factors, coordinates of its center, and three mutually orthogonal unit vectors that define the directions of its principal axes;

centering each ellipsoidal gaussian function at a randomly chosen position within said field;

forcing each ellipsoidal gaussian function to initially adopt a spherical shape; and maximizing the overlap between said field and the ellipsoidal gaussian functions by adjusting the coordinates of the center, the orientations of the principal axes and the magnitudes of the width factors and the size of the prefactor.

148. (New) The method of claim 147 wherein at least one of said ellipsoidal gaussian representations is calculated on a computer.

Conclusion

3. Patent applicants with problems or questions regarding electronic images that can be viewed in the Patent Application Information Retrieval system (PAIR) can now contact the USPTO's Patent Electronic Business Center (Patent EBC) for assistance. Representatives are available to answer your questions daily from 6 am to midnight (EST). The toll free number is (866) 217-9197. When calling please have your application serial or patent number, the type of

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document you are having an image problem with, the number of pages and the specific nature of the problem. The Patent Electronic Business Center will notify applicants of the resolution of the problem within 5-7 business days. Applicants can also check PAIR to confirm that the problem has been corrected. The USPTO's Patent Electronic Business Center is a complete service center supporting all patent business on the Internet. The USPTO's PAIR system provides Internet-based access to patent application status and history information. It also enables applicants to view the scanned images of their own application file folder(s) as well as general patent information available to the public.

For all other customer support, please call the USPTO Call Center at (800) 786-9199. Any inquiry concerning this communication or earlier communications from the examiner should be directed to John S. Brusca whose telephone number is 571 272-0714. The examiner can normally be reached on M-F 8:30 AM - 5:00 PM.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Ardin Marschel, PhD. can be reached on 571 272-0718. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

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John S. Brusca

Primary Examiner
Art Unit 1631

jsb